

ACCESSION NR: AR4034723

8/0124/64/000/003/0005/0005

SOURCE: Ref. zh. Mekhan., Abs. 3B29

AUTHOR: Davyudovskiy, V. Ya.

TITLE: On the two-dimensional movement of an ionized liquid in a layer of finite thickness, which is normal for a constant magnetic field

CITED SOURCE: Dokl. VI Nauchn. konferentsii Novokuznetskogo ped. in-ta po fiz.-matem. naukam. Novokuznetsk, 1963, 105-108

TOPIC TAGS: magnetism, ionized liquid magnetism, magnetic field

TRANSLATION: The author searches in a linearized arrangement for small disturbances of a homogeneous magnetic field, in a band of constant width of a nonviscous, noncompressible, infinitely conductive liquid, when the given field is directed perpendicular to the band. It is assumed in this case that the disturbances of the magnetic field, the speed, the electrical field, and the current lie on the plane of the band, and the pressure gradient can be omitted. The disturbed magnetic field is given in the form of the product of two functions: one depends upon the coordinates lying on the plane of the band, and the other on time and the coordinate perpendicular

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to the plane of the band, in which case, only the last function is found (in the form of Fourier series with a constant coefficient). To calculate emission and absorption of waves on the boundaries of the band, a member is added to the equation, which is proportional to the derivative of the unknown function in time, and the constants determining the damping of the harmonic are found.

DATE ACQ: 02Apr64

SUB CODE: PH

ENCL: 00

Card 2/2

ACCESSION NR: AR4027690

S/0124/64/000/002/3004/3004

SOURCE: RZh. Mekhanika, Abs. 2B13

AUTHOR: Davy'dovskiy, V. Ya.; Chernolivanov, S. V.

TITLE: Magnetohydrodynamic waves in a medium of diminishing density

CITED SOURCE: Dokl. VI Nauchn. konferentsii Novokuznetskogo ped. in-ta po fiz.-matem. naukam. Novokuznetsk, 1963, 111-114

TOPIC TAGS: magnetohydrodynamic wave, diminishing density, plane-polarized wave, non-compressible, infinitely conductive ideal fluid, homogeneous constant field, linear in z , non-compressible fluid

TRANSLATION: The author considers plane and plane-polarized waves in a non-compressible, infinitely conductive ideal fluid in a uniformly constant magnetic field, when the density diminishes monotonically in the direction of the field (x axis), and solves the problem by the method of separation of variables. In cases where ρ is linear in z or inversely proportional to z , the problem is completely solved, yielding the result that the intensity of the magnetic field

in the wave is proportional to $1/\sqrt{z}$. Bibliography of 4 ~~articles~~ titles. A. A. Barmin.
Card 1/2

DAVIDOVSKIY, Yu.S.

~~Protecting~~ marine oil-well installations against drifting ice.
Azerb.neft.khos. 35 no.5:30-31 My '56. (MLRA 9:10)

(Oil well drilling, Submarine)

DAVIDOVSKIY, Y. S.

Some problems of deep-seating piles in the ground in connection
with erecting offshore oil installations. Azerb.neft.khoz.35
no.9:37-40 S '56. (MLRA 9:12)
(Oil well drilling, Submarine) (Pile driving)

BOV/132-59-5-9/17

AUTHOR: Davydovskiy, Yu.S.

TITLE: The Drilling of Bore-Holes in Open Water Reservoirs

PERIODICAL: Razvedka i ckhkana nedr, 1959, Nr 5, pp 45-48 (USSR)

ABSTRACT: The author describes different types of drilling rigs used for drilling operations in the Caspian Sea. They are installed either on pontoons or small motor-barges. The KA-2M-300, AVBM-1-100 and AVBM-3-100 rigs are used for this purpose. There are 3 sets of diagrams.

ASSOCIATION: Institut Gipromorneft' (The Gipromorneft' Institute)

Card 1/1

L 40854-66 EWP(e)/EWT(m)/EWP(v)/T WH/WH

ACC NR: AP6004215

(A)

SOURCE CODE: UR/0331/65/000/010/0022/0024

AUTHOR: Zhukov, V. V.; Leonovich, I. I.; Davydulin, G. G.; Zhukov, A. V.

ORG: none*

TITLE: Binding materials used to reinforce surfaces of access roads in logging areas

SOURCE: Lesnaya promyshlennost', no. 10, 1965, 22-24

TOPIC TAGS: access road, soil property, soil consolidation, soil type

ABSTRACT: The article discusses studies conducted since 1960 by the Belorussian Transportation Institute ^{*} in. S. M. Kizov on the use of various types of roadbuilding and binding materials, e. g., gravel, cement, lime, etc., to reinforce the surfaces of dirt roads used primarily for the transportation of lumber in Belorussia. Studies of the physico-mechanical properties of soils treated by liquid bitumen, cement, lime, and peat show that a mixture of sandy soil and peat produces the highest degree of durability at a ratio of 30% peat to the weight of soil in dry weather conditions. This durability is increased by the addition of 15-20% of lime or 10-15% of cement, depending on the granulometric composition of the soil; when the soil is saturated by moisture, however, the durability considerably decreases. The greatest durability was obtained from the sand-gravel mixtures with a ratio of 40% of gravel to 50% of sandy soil. The

UDC: 634.383.4

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L 40854-66

ACC NR: AP6004215

use of various soils and binding materials in different ratios, their application on experimental roads and their durability and the various methods of roadbed preparation and access road construction are also discussed. Orig. art. has: 1 figure, 2 tables, 1 photograph.

SUB CODE: 13,62

SUBM DATE: none

Card 2/2 MLP

DAVYGORA, N.D.

26008 Davygora, N.D. Evakuatsiya Rannenykh Cherez Krupnuyu Vodnu u Pregradu V
Polkovoy Meditsinskiy Punkt. Voen.-Med. Zhurnal, 1948, No.6, S. 31-33.

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

DAVYDOVSKIY, Yu.S., inzh. (Baku)

~~Chlorella as a purifying agent of sewage. Vod. i san. tekhn. no.9:26-28~~
S '63. (MIRA 17:2)

BLYUMBERG, I.B.; DAVYKIN, I.M.

Some regularities of the imbibition process. Zhur. nauch. i
prikl. fot. i kin. 9 no.1:31-37 Ja-F'64. (MIRA 17:2)

1. Leningradskiy institut kinoinzhenerov (LIKI).

ACC NR: AF6033269

SOURCE CODE: UR/0020/66/170/004/0822/0824

AUTHOR: Davzhanov, Kh.; Shaktakhtinskiy, M. G.; Tagirov, V. I.; Aliyeva, B. S.; Shilkin, A. T.; Ruziyev, A. A.

ORG: Institute of Physics, Academy of Sciences, AzerbSSR)

TITLE: High temperature inversion of the Hall coefficient in tellurium

SOURCE: AN SSSR. Doklady, v. 170, no. 4, 1966, 822-824

TOPIC TAGS: tellurium, Hall coefficient, temperature dependence, energy band structure, impurity conductivity

ABSTRACT: To obtain more information on the band structure and on the mechanism of impurity conductivity of tellurium, the authors measured the electric conductivity and the Hall coefficient of tellurium doped with thallium. In view of the low solubility of thallium in tellurium, the impurity concentration was determined by a radioactive tracer method. The apparatus and technique used to grow the tellurium single crystals were described elsewhere (Priory i tekhn. experimenta no. 5, 172, 1961). The measurements were made by a standard method in the temperature interval 77 - 530K, both in the direction of the principal axis of the crystal and perpendicular to it. The results show that the Hall coefficient is independent of the direction of the crystallographic axes, but the electric conductivity is. In spite of the similarity between selenium and tellurium in structure, thallium has a different effect on the electric properties of tellurium than of selenium. The admixture of thallium greatly

Cord 1/2

UDC: 539.293: 537

ACC NR: AF6033269

increases the electric conductivity of the tellurium, which remains of the p-type regardless of the thallium content. With increasing thallium content, the low temperature inversion point of the Hall coefficient shifts toward higher temperatures. The high temperature inversion point is shifted toward lower temperatures with increasing thallium concentration. A table of inversion temperatures as functions of the concentration is included. Although the number of holes per thallium atom is on the average 0.5, this still does not mean that the thallium atoms are direct acceptors in the tellurium lattice. The change in the second inversion point of the Hall coefficient of tellurium can be attributed either to the deformation of the energy band during the alloying of tellurium by thallium, or to the change of the density of states in the energy band. This report was presented by Academician N. P. Sazhin 10 January 1966. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 04Jan66/ ORIG REF: 005/ OTH REF: 005

Card 2/2

L 9029-66 EWT(d)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/EWA(h) IJP(c)
 ACC NR: AP5022946 MJW/JD/EM UR/0201/65/000/002/0124/0126

AUTHOR: Kanavalaw, Ya.R.; Rezizowski, E.I.; Davgvala, I.G.
 44.54 44.54 44.54

TITLE: Effect of preliminary cyclic loads of ultrasonic frequency on the creep rate of copper and D16T alloy

SOURCE: AN BSSR. Vestsi. Seriya fizika-tekhnichnykh navuk, no. 2, 1965, 124-126

TOPIC TAGS: cyclic load, creep, oscillation, ultrasonic frequency, hardening, aluminum alloy, copper

ABSTRACT: This study was carried out with M1 copper and D16T aluminum alloy. The experimental data show that 1) preliminary application of cyclic loads of ultrasonic frequency drastically reduces the creep rate of the copper and aluminum alloy due to hardening, 2) the creep of copper samples loaded at static stress of $+16.2 \text{ kg/mm}^2$ decreases 35.3% and at $+21.5 \text{ kg/mm}^2$ about 61% as compared with that of nonloaded samples, 3) the creep of aluminum alloy decreases in the mean 30.6% as compared with the nonloaded samples, and 4) the degree of hardening depends mostly on the cyclic stress of the expansion and compression and to a lesser extent on the number of applied cycles. Orig. art. has: 2 figures and 4 formulas.

Card 1/2

L 9029-66

ACC NR: AP5022946

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: 11, 20

NO REF SOV: 009

OTHER: 000

Cord 2/2 pul

P/012/59/004/03/08/020

AUTHORS: Chrzęszczewska, A.; Kirkor, W.; Dawid, W.

TITLE: Esters of Carboxylic Acids of 2-Hydroxyethylamines and its Derivatives. II. Synthesis of N-Bis-(2'-Hydroxyethyl)-2-Aminoethyl p-Nitrobenzoate and its Hydrochloride and of Hydrochloride of N-Bis-(2'-Chloroethyl)-2-Aminoethyl p-Nitrobenzoate

PERIODICAL: Societas Scientiarum Lodziensis Acta Chimica, 1959, Vol 4, pp 77 - 84

TEXT: The authors describe a further step in their investigations on esters of carboxylic acids of 2-hydroxyethylamines and its derivatives. They succeeded in synthesizing a) N-bis-(2'-hydroxyethyl)-2-aminoethyl p-nitrobenzoate and its hydrochloride, and b) hydrochloride of N-bis-(2'-chloroethyl)-2-aminoethyl p-nitrobenzoate. These syntheses were not described yet in chemical scientific literature. The results of quantitative analysis of all compounds obtained are in agreement with theoretical assumptions. There are 2 tables and 2 references: 1 Polish and 1 English.



Card 1/2

P/012/59/004/03/08/020

Esters of Carboxylic Acids of 2-Hydroxyethylamines and its Derivatives. II.
Synthesis of N-Bis-(2'-Hydroxyethyl)-2-Aminoethyl p-Nitrobenzoate and its
Hydrochloride of N-Bis-(2'-Chloroethyl)-2-Aminoethyl p-Nitrobenzoate

ASSOCIATIONS: Katedra Chemii Organicznej Uniwersytetu Łódzkiego (Lodz Uni-
versity, Department of Organic Chemistry); Katedra Chemii
Wyższej Szkoły Ekonomicznej (High School of Economics, De-
partment of Chemistry) in Lodz

PRESENTED: March 14, 1959



Card 2/2

P/012/59/004/03/09/020

AUTHORS: Chrzęszczewska, A.; Szalecki, W.; Kirkor, W.; Dawid, W.

TITLE: Esters of Carboxylic Acids of 2-Hydroxyethyl-Amines and its Derivatives. III. Synthesis of Hydrochloride of Triethanolamine Tri-o-Chlorobenzoate

PERIODICAL: Societas Scientiarum Lodziensis Acta Chimica, 1959, Vol 4, pp 85 - 87

TEXT: While investigating the action of acid chlorides on triethanolamine, a new compound, the hydrochloride of triethanolamine of tri-o-chlorobenzoate was obtained. It was not described yet in chemical scientific literature. It crystallizes in the form of colourless plates with 97-98°C melting temperature. It dissolves easily in acetone, methanol and ethanol, sparingly in benzene and in water and is not soluble in ether. Quantitative analysis and molecular weight are in agreement with theoretical figures.

ASSOCIATION: Katedra Chemii Organicznej Uniwersytetu Łódzkiego (Lodz University, Department of Organic Chemistry)

PRESENTED: March 14, 1959

✓ A

Card 1/1

CHYZASZCZEWSKA, A.; DAWID, W.

Esters of carboxylic acids of 2-hydroxyethylamines and their derivatives. Pt.10. Acta chim 9:190-212 '64.

1. Department of Organic Chemistry of the Lodz University.
Presented Nov. 1962.

DAWIDKO, M.

From the superphosphate producing works in Wroclaw.
Przem chem 41 nc.5:282. My '62.

DAWIDOWICZ A.

2237. Dawidowicz A. III. Klin. Chorob wewn. Akad. med., Warszawa. * Zapalenie stawow z jednoczesnym ropnym zapaleniem spojowek i cewki moczowej (tzw, zespol Reitera) leczone poinsolinowzmi lekkimi stanami hipoglikemicznymi. Reiter's syndrome treated with small doses of insulin. Favourable effect of mild forms of hypoglycaemia POL.TYG.LEK.1953, 8/50 (1700-1703)

(VI,9,12,13)

SO: Excerpta Medica Sect. XIII Vol. 8 No. 9

DAWIDOWICZ, Aleksander, Dr

On post-insulin light hypoglycaemic states and their therapeutic value. Bull. Sec. amis sc. Poznan, ser. C No.4:95-102 1954.

L. III Clinic of Internal Diseases of the Warsaw Medical Academy
(INSULIN, therapeutic use,
post-insulin hypoglycemic states)

DAWIDOWICZ, Aleksander; ZAREMBA, Janusz; ZYLO, Janusz

Two cases of primary cancer of the liver. Polski tygod. lek. 9
no.43:1389-1395 25 Oct 54.

1. Z III Kliniki Chorob Wewnętrznych Akademii Medycznej w Warszawie.
kierownik: prof. dr J.R.Wegierko i z Zakładu Anatomii Patologicznej
Akademii Medycznej kierownik prof. dr L.Paszkiewicz.

(LIVER, neoplasms,
case reports)

DAWIDOWICZ, Aleksander

Value of blood sugar curves obtained following administration of insulin and grape sugar in differentiation of parenchymal and neoplastic jaundice. Polskie arch.med.wewn. 25 no.3a:577-586 '55.

1. III Klinika Chorob Wewnętrznych AM w Warszawie Kiernownik:
prof. dr Med. J. Wegierko.

(JAUNDICE

neoplastic & parenchymal, differ.diag., blood sugar
curves after admin. of insulin & grape sugar)

(BLOOD SUGAR, in various diseases

jaundice, neoplastic & parenchymal, diag.value of
curves obtained after insulin & grape sugar admin.)

(INSULINE, effects

on blood sugar curves in neoplastic & parenchymal
jaundice, value in differ.diag.)

(GLUCOSE, effects

dextrose on blood sugar curves in neoplastic &
parenchymal jaundice, value in differ.diag.)

DAWIDOWICZ, Aleksander

Empirical methods of the treatment of diabetes mellitus.
Postepy wiedzy med. 3 no.3:275-296 July-Sept 56.

1. Z II Klin. Chorob Wewn. Akad. Med. w Warszawie, Kier.
prof. dr. J. Wegierko.
(DIABETES MELLITUS, therapy,
empirical methods, review (Pol))

EXCERPTA MEDICA Sec. 6 Vol. 11/11 Nov. 57
DAWIDOWICZ A.

7008, DAWIDOWICZ A. III Klin, Chorób Wewn. A.M., Warszawa. *Badania nad odczynem ketonotwórczym w niektórych zespołach chorobowych. Ketogenic reaction in some diseases POL.TYG.LEK. 1956, 11/42 (1777-1785) Graphs 4 Tables 4

The concentration of the ketone bodies in the blood was determined in normals and in patients suffering from: (1) peptic ulcer; (2) essential hypertension; (3) hyperthyroidism; (4) neutral goitre after: (a) 3 days ketogenic diet, (b) 36 hr. starvation, (c) operative procedures. There was a great increase of the ketone bodies in hyperthyroidism and hypertension, a slight one in peptic ulcer, and the concentration was normal in neutral goitre.

Michajlik - Warsaw

DAWIDOWICZ, Aleksander; SYMONOWICZ, Norbert

On attempted complex therapy of bronchial asthma by means of slight post-insulin hypoglycemic states and adrenalin. Polskie arch.med.wewnierz. 29 no.10:1340-1353 '59.

1. Z Kliniki Chorob Wewnętrznych Akademii Medycznej w Szczecinie
Kierownik: prof. dr med. J. Węgierko Z III Kliniki Chorob
Wewnętrznych Akademii Medycznej w Warszawie Kierownik: prof.
dr med. J. Węgierko Z Oddziału Chorob Wewnętrznych 2 Centralnego
Szpitala Klinicznego Wojskowej Akademii Medycznej Kierownik
naukowy: doc. dr med. S. Bober oraz Laboratorium 2 Centralnego
Szpitala Klinicznego Wojskowej Akademii Medycznej Kierownik:
doc. dr med. T. Szymkiewicz.

(ASTHMA ther)

(INSULIN ther)

(EPINEPHRINE ther)

DAWIDOWICZ, Aleksander; KUZMINSKA, Dorota; KONOPKA, Krzysztof

A case of coma in a women with Gliniski-Sheehan syndrome. Polski tygod.lek. 15 no.30:1157-1160 25 J1 '60.

1. Z Oddzialu Chorob Wewnetrznych 2 Centralnego Szpitala
Klinicznego W.A.M. w Warszawie; kierownik anukowy: doc dr med.
S.Bober

(PITUITARY GLAND dis)
(COMA etiol)

BOBER, Stanislaw; DAWIDOWICZ, Aleksander

On prolonged remissions in diabetic patients treated with BZ 55
and D 860. Polskie arch.med.wewn. 30 no.8:1101-1110 '60.

1. Z Oddzialu Chorob Wewnetrznych II Centralnego Szpitala Klinicznego
Wojskowej Akademii Medycznej Kierownik naukowy: prof. dr med.
S.Bober.

(CARBUTAMIDE ther)
(TONBUTAMIDE ther)

DAWIDOWICZ, Aleksander; SYMONOWICZ, Norbert; TORZ, Wacław

On possible diagnostic errors in Mendel-Hoogland's blood sugar determination and in polarimetric urinary sugar determination in patients receiving dextran. Polskie arch. med. wewn. 30 no.10:1277-1284 '60.

1. Z Oddziału Chereb Wewnętrznych Kierownik: prof. dr med. St. Bober Z I Oddziału Chirurgicznego Kierownik: dr med. Wl. Zagorski Z Laboratorium Kierownik: lek N. Symonowicz. 2. Centralnego Szpitala Klinicznego Wojskowej Akademii Medycznej.

(BLOOD SUGAR chem) GLYCOSURIA diag) (DEXTRAN ther)

WEGIERKO, Jakub; DAWIDOWICZ, Aleksander

On gastric and duodenal ulcer in patients with diabetes. Polskie
arch. med. wewn. 30 no.10:1291-1302 '60.

1. Z III Kliniki Chorob Wewnętrznych A.M. w Warszawie Kierownik:
prof. dr med. J. Wegierko, a od 1.III.1958 Kierownik: prof. dr
med. E. Kodejszko.

(PEPTIC ULCER compl) (DIABETES MELLITUS compl)

--DAWIDOWICZ, Aleksander

On the effect of insulin hypoglycemia and thyroid hormones on
adrenalin and noradrenalin metabolism in animals and men. Polskie
arch. med. wewnetrz. 31 no.1:67-80 '61.

1. Z Oddziału Chorób Wewn. Centralnego Szpitala Klinicznego W.A.M.
w Warszawie Kierownik naukowy: prof. dr med. S. Bober.

(THYROID GLAND hormones) (HYPERINSULINISM)
(EPINEPHRINE metab) (NOREPINEPHRINE metab)

BOHER, Stanislaw; DAWIDOWICZ, Aleksander; DABROWA, Romuald; IWANSKA, Janina;
KRUZE, Dariusz; SKRZYPCZYK, Ewa

Studies on the level of free amino acids in the blood serum in patients
with diabetes with the use of the method of paper column chromatography.
Pol. arch. med. wewnet. 32 no.8:879-889 '62.

1. Z Kliniki Chorob Wewnętrznych Centralnego Szpitala Klinicznego w
Warszawie Kierownik Katedry i Kliniki: prof. dr med. S. Bober.
(DIABETES MELLITUS) (AMINO ACIDS)
(BLOOD CHEMICAL ANALYSIS)

DAWIDOWICZ, Aleksander

On the mechanism of action of guanidine derivatives on carbohydrate metabolism in man and animals. Pol. tyg. lek. 18 no.46: 1738-1741 11 N'63

1. Z Kliniki Chorob Wewnętrznych 2 Centralnego Szpitala Klinicznego WAM w Warszawie; kierownik: prof.dr.med. S. Bober.

*

WIECZORKIEWICZ, Tadeusz; DAWIDOWICZ, Aleksander; SYMONOWICZ, Norbert.

Results of the prednisone--glucose test in mothers giving birth to giant fetuses. Ginek. Pol. 35 no.6:777-787 N-B '64

1. Z Kliniki Położnictwa i Chorob Kobietych Wojskowej Akademii Medycznej w Łodzi; z Kliniki Zarowego Człowieka Instytutu Medycyny Ogólnej i z laboratorium Centralnego Szpitala Klinicznego Wojskowej Akademii Medycznej w Łodzi.

DAWIDOWICZ, A.

Impressions from a visit to London diabetic centers in the period from November 2 to December 21, 1964. Wiad. lek. 18 no. 21:1687-1692 1 N ' 65.

S/081/63/000/003/036/036
B144/B186

AUTHORS: Majewska, Janina, Dawidowicz, Bohdan

TITLE: Method of determining the thermostability of films obtained from polyvinyl alcohol solutions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 644, abstract 3T412 (Polimery, tworzywa wielkocząsteczkowe, v. 7, no. 1, 1962, 20 - 21 [Pol.])

TEXT: Polyvinyl alcohol (PA) turns yellow when heated for a certain time in hot air. The color change of the polymer depends on the quality of the PA used, the presence of admixtures, the temperature of treatment, etc. The study of the effect of different substances on the yellowing time of the polymer sample became an important problem with the aim of finding out these conditions at which the fibers, subjected to heat treatment at the technologically necessary temperature and duration, will not color. To achieve this, a rapid and suitable method was worked out, based on the determination of the thermostability of films obtained from PA solutions. The method consists in submerging a special test-tube end downwards into the PA solution being tested, and in the subsequent deposition of the
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Method of determining the thermostability ... S/081/63/000/003/036/036
B144/B186

polymer film in a coagulation bath consisting, for example, of concentrated aqueous solution of sodium sulfate. The film obtained is dried, together with the test tube, and then the thermostability of the film is determined. The thermostability is measured in a glass thermostat filled with silicon oil and filled with jacketed agitator, a contact thermometer, a control thermometer, as well as an electric heating unit. The thermostat is represented diagrammatically and the results obtained with the PA Gosenol no. 0-57 polyvinyl alcohol are given in a table. Using this method, the thermostability of other polymers can also be determined. The results have shown that the presence of sodium acetate in the polymer is responsible for the rapid yellowing of the fibers during the heat treatment. With an increasing content of sodium acetate in the polymer the thermostability of the films and the fiber produced from polyvinyl alcohol decreases correspondingly. [Abstractor's note: Complete translation.]

Card 2/2

DAWIDOWICZ, Irena (Zabrze, ul. 1 Maja 18 m 1)

Cupping glass-edema test in diseases of the hepatic parenchyma.
Polski tygod. lek. 12 no.17:636-639 22 Apr 1957.

1. Z II Kliniki Chorob Wewnętrznych Śląskiej Akademii Medycznej
w Zabrzu; kierownik: prof. dr med. W. Zahorski.

(LIVER FUNCTION TESTS

cupping glass edema test in hepatic parenchyma dis. (Pol)

SŁOMINSKA-PIETELNIZOWA, Teresa; DAWIDOWICZ, Irena

Examination of the capillary resistance in the skin in diabetics.
Pol. tyg. lek. 20 no. 389-91 18 Ja '65.

1. Z Kliniki Chorob Wewnętrznych i Zawodowych Śląskiej Akademii
Medycznej w Zabrze (Kierownik: prof. dr. med. Witold Zahorski)
i z Wojewódzkiej Przychodni dla chorych na cukrzycę

POLAND

DAWIDOWICZ, Irena, Second Clinic of Internal Diseases (II
Klinika Chorob Wewnętrznych), SI. AM [Slaska Akademia Medycz-
na, Silesian Medical Academy] in Zabrze (Director: Prof. Dr.
med. Witold ZAHORSKI)

"Diagnostic Value of the Sasus Test in Primary and Regulative
Diabetes."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 35, 26 Aug 63,
pp 1293-1297

Abstract: [Author's English summary modified] Study covered
363 diabetic patients, 60 with primary and 303 with regulative
diabetis, as well as 40 controls. Findings of the Lasus test
are shown in one graph and two tables. Author discusses the
usefulness of the test in diagnosis of pancreatic excretion
disorders, and finds the results obtained statistically sig-
nificant both for such diagnosis, as well as for differentia-
tion between primary and regulative diabetes. There are 21
references: 9 Polish, one Rumanian, 5 German, and 6 Western.

1/1

Gerard, ZURKOWSKI, Andrzej, and DAWIDOWICZ, Irena,
Department of Internal and Occupational Diseases (Klinika Chorob
Wewnętrznych i Zawodowych), Sl.AM [Slaska Akademia Medyczna,
Silesian Medical Academy] in Zabrze (Director: Prof. Dr. med.
Witold ZAHORSKI)

"Therapeutic Value of Ambutonium Bromide in Gastric and Duo-
denal Ulcer."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 37, 9 Sep 63,
pp 1393-1396

Abstract: [Authors' English summary modified] Authors re-
port the details of their study on the therapeutic effect of
ambutonium bromide in peptic ulcers, and conclude that 4 x 10
mg daily for two weeks together with alusal is effective.
Considering the time of absorption from intestinal tract, it
should be taken one hour before meals in the case of gastric,
and immediately before the meals in the case of duodenal ul-
cers. There are five (5) English-language references.

1/1

POLAND

SONDERKO, Gerard, ZURKOWSKI, Andrzej, and DAWIDOWICZ, Irena,
Clinic of Internal and Occupational Diseases (Klinika Chorob
Wewnętrznych i Zawodowych), Sl.AM [Śląska Akademia Medyczna,
Silesian Medical Academy] in Zabrze (Director: Prof. Dr. med.
Witold ZAHORSKI)

"Therapeutic Value of Ambutonium Bromide in Gastric and Duo-
denal Ulcer."

Warsaw, Polski Tygodnik Lekarski, Vol 18, No 37, 9 Sep 63,
pp 1393-1396

Abstract: [Authors' English summary modified] Authors re-
port the details of their study on the therapeutic effect of
ambutonium bromide in peptic ulcers, and conclude that 4 x 10
mg daily for two weeks together with alusal is effective.
Considering the time of absorption from intestinal tract, it
should be taken one hour before meals in the case of gastric,
and immediately before the meals in the case of duodenal ul-
cers. There are five (5) English-language references.

1/1

EXCERPTA MEDICA Sec. 6 Vol. 11/4 Apr. 57
DAWIDOWICZ J.

2137. DAWIDOWICZ J., GÓRSKI J., KUJAWSKA A., PODOLECKI S. and
SROCZYŃSKI J. II. Klin. Chor. Wewn. Śl. A.M., Zabrze. Stan
narządu krążenia u lekarzy jednego z miast śląskich. The state of
the circulatory system of physicians in one of the
Silesian towns MED. PRACY 1956, 7/1 (57-63) Tables 2

A study on 152 physicians was carried out. The age ranged from 24 to 64 yr. The
time of professional work ranged from 2 to 30 yr. Among the individuals, 16%
presented chronic myocardosis, 5% hypertension of the first degree, 3.3% hyper-
tension of the second degree, 1.4% hypertension of the third degree, 2% coronary
artery disease, 3.3% neurovegetative dystony. The most frequently encountered
diseases among physicians were degeneration of the myocardium and hyperten-
sion. Coronary artery disease was not encountered frequently. Surgeons were
affected more frequently by diseases of the circulatory system than their col-
leagues in other branches of medicine.

(VI, 17)

DAWIDOWICZ, J.

Fitting and assembling aluminum automobile shells. Biuletyn. p.IX
(MOTORYZACJA Vol. 12, No. 5, May 1957, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sept. 1957, Uncl.

DAWIDOWICZ, Jerzy, mgr inz.

General overhaul of automobiles in the Czechoslovak
Socialist Republic. Techn motor 12 no. 7; Supplement:
Biul inf OBTS 8 no. 3: 1-2 J1 '62.

DAWIDOWICZ, Jerzy, mgr inż.; WOJNAROWSKI, Janusz, mgr inż.

Application of hard ironing in the recovery of automobile
parts. Techn motor 14 no. 3: Supplement: Biul inf OBTS
12 no. 2:1-2 Mr '64.

DAWIDOWICZ, Jerzy, mgr inż.; KAMIEROWSKI, Zdzisław, inż.

Faults of regenerated coatings padded by electroimpulses. Techn
motor 14 no.9;Suppl:Biul inf OBTS 12 no.5:1-2 S '64

DAWIDOWICZ, Jerzy, mgr inz.

Recovery of automobile parts. Pt. 1. Techn motor 14
no. 4:122-126 Ap '64.

1. Research Center of Automobile Transportation,
Warsaw.

DAWIDOWICZ, Jerzy, mgr inż.

Regeneration of automobile parts. Pt.2. Techn motor 14 no.5;
155-158 My '64.

DAWIDOWICZ, Jerzy, mgr inz.

Regeneration of automobile parts. Pt. 3. Techn motor 14 no. 6:
189-192 Je '64.

DAWIDOWICZ, S

Scale adjustment of a manometric weighing instrument with a shuttle spring.
p. 9.

POMIARY, AUTOMATYKA, KONTROLA. (Naczelna Organizacja Techniczna)
Warszawa, Poland. Vol.5, no.1, January 1959

Monthly list of East European Accession (EEAI) LC, Vol.8, no. 7, July 1959

Uncl.

DAWIDOWICZ, Stanislaw (Krakow i Gzestochowa)

Starting flow rate as efficiency measure of a single-stage
reciprocating air compressor. Archiw bud masz 9 no.3:349-
374 *62.

DAWIDOWSKA, I.

NEYMAN, Kazimierz; DAWIDOWSKA, Irena; STORKOWSKA, Lucyna

Brucellosis in workers of dairy industry and of milk-collection centers
in the Poznan province. Przegl. epidem., Warsz. 12 no.2:147-150 1958.

1. Z Działu Epidemiologii Woj. Stacji San. -Epid. w Poznaniu Kierownik
Działu: dr med. K. Neyman Dyrektor Stacji: dr med St. Grzymala.

(BRUCELLOSIS, epidemiology,
in dairy workers (Pol))

(OCCUPATIONAL DISEASES,
brucellosis in dairy workers. (Pol))

Nawadowski, Roman 2900997

18(0)

P/039/60/000/03/002/017
D010/D025

AUTHOR:

Róśański, Stanisław, Docent, Doctor of Engineering

TITLE:

The Most Important Scientific and Didactic Achievements of the Mining and Metallurgical Academy and Directions of Investigations in Iron Metallurgy

PERIODICAL:

Rutnik 1960, Nr 3, p 92 - 95

ABSTRACT:

In the introductory part of this article the author deals with the early history of the Academy which was formed in 1919 and originally composed of two departments and five chairs. Its most active organizers were the following professors: Engineer Rodziejewicz and Biologists: Engineer Korwin-Krukowski, Doctor of Engineering, I. Feszenko-Oropiński, Doctor of Engineering W. Ronkiewicz, Doctor of Engineering R. Dawidowski, Engineer A. Ludkiewicz and Engineer J. Burski. During WWII the Germans closed the Academy. It was reopened in 1945 with chairs and institutes covering new fields and subjects of metallurgy

Card 1/8

Davidowski, R.

WSTNIK Nr 3, 1960

P/039/60/000/03/002/017
D010/D025

The Most Important Scientific and Didactic Achievements of the Mining and Metallurgical Academy and Directions of Investigations in Iron Metallurgy

Professor Doctor of Engineering W. Łękwicz was the first in Poland to lecture on Light Metals Science and Metallurgy. The Chair of Heat Economy was inaugurated in 1925 and since Professor R. Davidowski's death it is headed by assistant Professor R. Davidowski's Engineering R. Andrzejewski. The most important subjects being dealt with by the Chair are combustion of fuels and intensification of firing processes, in the industry theory of gas flow in metallurgical furnaces, combustion of solid fuels on grates, theory of controlling generator gas composition, problems of metal recuperators and regenerators. Professor Andrzejewski carried out some investigations on high- and low pressure gas burners and Doctor of Engineering K. Mikulski on dust extraction from flue-gases and me-

Card 6/8

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PROCEDURES AND PROPERTIES INDEX	
F 4320. INVESTIGATION OF BURNER COEFFICIENT "K" AND HEAT FLOW IN A FUEL-FIRED FURNACE. Dawidowski, R. and Benkara, T. (Proc Badawone Glownego Inst. Met. i Odlewnictwa (Rep. Met. Foundry Res. Inst.), 1949, No. 1, 59-72). Above coefficient was determined experimentally in presence of 23% excess air. Distribution of temperature of the waste gases and total coefficient of heat transmission to the cold charge were determined. Describes special "calorimetric sounding rod" used. Part played by convection, radiation from the walls, etc., is shown diagrammatically. B.L.R.	0
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PROCESSES AND PROPERTIES INDEX																			
Investigation of the Burner Coefficient "k" and Heat Flow in Fuel-Fired Furnaces. Part II. R. Dawidowski, W. Bilyk, and T. Senkara. (Prace Badawcze Głównego Instytutu Metalurgii i Odlewnictwa, 1949, No. 2, pp. 127-130). [In Polish]. The burner coefficient and the coefficient of heat transfer have been determined for the Meyerhold burner size No. 3.—W. J. W.																			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																			
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DAWIDZIUK, Slawomir, inz.

An experiment worthy to be universally followed. Przegl geod
37 no.3:99-100 Mr '65.

CZYZEWSKI, K., prof. dr.; DAWISKA, E.; GIEMANSKI, A.; OLESZKIEWICZ

Wirsungography in peroperative cholangiography. Cesk. radiol.
19 no.2:101-103 Mr '65

1. I. chirurgicka klinika (prednosta: prof. dr. K. Czyzewski);
radiologiczna klinika (prednosta: doc. dr. Z. Kubrakiewicz)
Lekarske akademie Wroclaw, Polsko.

DAWISKIBA, Emil; DOROBISZ, Tadeusz

Management of perforation of the thoracic parts of the esophagus.
Polski przegl.chir.32 no.2:123-131 P '60.

1. Z I Kliniki Chirurgicznej A.M. we Wroclawiu. Kierownik: prof.
dr. K. Czyzewski.

(ESOPHAGUS wds.& inj.)

DAWISKA, Emil

Early obstruction of the anastomosis following gastrectomy. Pol.
tyg. lek. 19 no.14:515-517 30 Mr '64.

1. Z Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu (kierownik: prof. dr. med. K. Qyzewski).

SZEPIETOWSKI, Tomasz; DAWISKIBA, Emil; ZAGROBELNY, Zdzisław.

Clinical significance of oliguria and elevated rest nitrogen in the blood serum of patients during early postoperative days. Pol. tyg. lek. 20 no.12:419-421 22 Mr '65

1. Z I Kliniki Chirurgicznej Akademii Medycznej we Wrocławiu (Kierownik: prof. dr. K. Czyżewski).

BEILINSKA-CZARNECKA, H.; DZIEDZIOL, U.; DAWYDKO, B.

Comparison of spurs and leaves of annually and biennially bearing apple trees of Perkins variety in respect to their content of nitrogen compounds. Acta agrobot 16:133-144 '64.

1. Institute of Pomology, Skierniewice. Submitted February 25, 1964.

DAXNER, M.

Distr: 4E2c(j)/4E3b

✓ Paraformaldehyde. Milan Daxner, Jan Viskup, Karol
Hrincovini, Pavol Kováč, and Ladislav Novák, Czech.
90,000, May 16, 1959. The app. and procedure are
described for the polymerization of aq. 48.2% HCHO
in the presence of 0.16% NaOH or other alk. catalysts
with continuous stirring carried stepwise. A product
contg. 80.1% polymer is obtained. L. J. Urbánek

6
1-727/118
2

p2

244/00

S/044/62/000/008/033/073
C111/C222

AUTHOR: Dayan, L.A.

TITLE: An investigation of the solution of the equation of vortex transmission under different approximation of the derivatives

PERIODICAL: Referativnyy zhurnal, Matematika, no. 8, 1962, 70, abstract 8B319. ("Tr. 1-y zakavkazsk. konferentsii molodykh nauchn. sotrudn., posvyashch. vopr. energ., gidravliki-gidrodinamiki i meteorol.-gidrol." Yerevan, 1960, 285-301)

TEXT: The Cauchy problem for the equation of the geopotential on the medium level

$$\frac{\partial \Delta H}{\partial t} = - \frac{g}{l} (H, \Delta H) - B \frac{\partial H}{\partial x}$$

is solved with the aid of the difference method; H is the height of the isobaric surface, l -- Coriolis parameter, g -- acceleration due to gravity, t -- time, $B = \frac{\partial l}{\partial y}$.

Card 1/2

An investigation of the solution ...

S/044/62/000/008/033/073
C111/C222

On the boundary $\frac{\partial H}{\partial t} = 0$ is prescribed. In order to increase the accuracy, the Laplace operator was determined with the aid of 8 points. The error is estimated which arises by approximating the derivatives of the initial field in the following way

$$H(x,y) = - Cy + D \cos (\mu x + \gamma y).$$

The calculations were carried out on the computer M-2. The program is given.

[Abstracter's note : Complete translation.]

Card 2/2

1. 21570-66 FWT(m)/T
ACC NR: AF6006748

SOURCE CODE: UR/0386/66/003/006/0237/0210

AUTHOR: Daybog, YE. I.

ORG: Joint Institute of Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy)

TITLE: Application of SU(3) symmetry to multiple meson production /7. ~~425~~

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 6, 1966, 237-240

TOPIC TAGS: nuclear collision, strong nuclear interaction, particle production, meson interaction, Pi meson, group theory

ABSTRACT: In view of the fact that the relation derived by K. N. Watson (Phys. Rev. v. 85, 852, 1952) for multiple production of mesons in a collision between a nucleon and a nucleus containing an equal number of neutrons and protons, viz., $\bar{N}^0/(\bar{N}^+ + \bar{N}^-) = \frac{1}{2}$ ($\bar{N}^0$, $\bar{N}^+$, and $\bar{N}^-$ are the average numbers of the π^0 , π^+ , and π^- mesons), does not agree with experiment (this ratio is close to unity at 10^{10} -- 10^{12} ev energy), the author suggests that the quantity measured in experiment is actually $(\bar{N}^0 + \bar{N}^{\eta 0})/(\bar{N}^+ + \bar{N}^-)$, where $\bar{N}^{\eta 0}$ is the average number of η mesons. In support, he calculates the latter ratio with the aid of SU(3) symmetry, evaluating the projection operators for the entire octet of pseudoscalar mesons. The analysis demonstrates clearly that the situation arising when Watson's theorem is generalized to the SU(3) case differs fundamentally from the situation prevailing during the multiple-production experiment, and

Card 1/2

L 21570-66

ACC NR: AP6008746

that for physically realized states of the produced mesons it is possible to estimate the ratio of the charged and neutral components. The entire analysis is based on the assumption that the $SU(3)$ symmetry is exact. It is noted in conclusion that an estimate of the phase volumes shows that in the ultrarelativistic region the phase volume is practically independent of the masses, and that this takes place already for multiple production processes observed with the aid of an accelerator. Orig. art. has: 7 formulas.

SUB CODE: 20/ SUBM DATE: 21Jan66/ ORIG REF: 001/ OTH REF: 002

Card 2/2 ULR

DAYEN, Leonid Abramovich; POZNYAK, Pavel Ivanovich; CHERP, Mark
Maksovich; POVOLOTSKIY, A.I.[Povolots'kyi, A.I.], red.;
LEVCHENKO, O.K., tekhn. red.

[Kiev; a guidebook and manual] Kyiv; putivnyk-dovidnyk.
Kyiv, Derzh.vyd-vo polit.lit-ry URSR, 1963. 187 p.
(MIRA 17:3)

DAYAN, L.A.

Motion of a monomolecular film under the action of a steady wind.
Izv.AN Arm.SSR.Ser.tekh.nauk 16 no.2/3:133-138 '63. (MIRA 16:9)
(Films (Chemistry)) (Fluid dynamics)

ARZUMANYAN, G.A., kand. med. nauk; DAYAN, O.A., klinicheskiy ordinator;
ARUTYUNYAN, L.O., klinicheskiy ordinator.

Diagnosis of lung cancer by the cytologic study of the sputum.
Vop. rent. i onk. 7:289-295 '63 (MIRA 17:7)

USSR/Weeds and Weed Control.

N

Abs Jour : Ref Zhur Biol., No 18, 1958, 82615

Author : Sapelkin, V.K., Dayanov, F.K.

Inst : -

Title : Effect of Herbicides on Bulrushes and Rice.

Orig Pub : V sb.: Kratkiye itogi nauchno-issled. raboty (Kubansk. ris. opyt. st.) za 1956 g. Krasnodar, "Sov. Kuban'", 1957, 82-86

Abstract : Herbicides (especially butyl ether - 2,4-D, and also chloro IFK) are an effective means of controlling the bulrush (*Scirpus holloboenus maritimus*). The higher the dosage of the herbicides, the higher their destructive effect: with 2,4-D doses of 1, 1.5 and 2 kilograms/ha, 84.5, 89.4 and 92.6% of the weeds respectively, were destroyed and injured. However, the large doses of herbicides, particularly of 2,4-D, produce a negative effect on the rice crop. In small doses, herbicides act as growth accelerators. -- O.P. Medvedeva

Card 1/1

- 4 -

Daybel', L.V.

AUTHOR: Daybel', L.V., Engineer

130-12-20/24

TITLE: Construction of a Continuous Furnace with the Use of a Descending Shaft (Stroitel'stvo metodicheskoy pechi s primeneniye opusknogo kolodtsa)

PERIODICAL: Metallurg, 1957, No.12, p. 32 (USSR).

ABSTRACT: The method adopted at the Nizhne-Tagil'sk Metallurgical Combine for constructing a new reheating furnace without disturbing the foundations of the existing one or of the supporting columns is outlined. A truncated open and bottomless box 23184 x 9316 mm external dimensions (Fig.2) of type 140 heat-resisting reinforced concrete with sharp wall bottoms was placed in the partly-dug foundations and loaded. The walls were built up by concreting and when this had set the structure was loaded with blooms. Soil was removed from under the walls and inside the box and the box descended. For effecting required alterations in roller tables new tables were mounted on a special bridge. Design of the equipment was carried out by the Stal' proyekt organisation and the local team of the Gipromes organisation. Construction was by the Tagil'stroy trust and the combine. There are 3 figures.

ASSOCIATION: Nizhniy-Tagil team of Gipromes (Nizhne-Tagil'skaya brigada Gipromes)

AVAILABLE: Library of Congress
Card 1/1

DAYBOR, K.

Department of Planning and Design of Industrial Objects in
the Warsaw Academy of Arts. Tekh. est. 2 no.9:27 S '65.
(MIRA 18:11)

1. Institut tekhnicheskoy estetiki Pol'skoy Narodnoy
Respubliki.

Distr: ~~hElj/hElm/hE3d~~

3104. THE "DRAG" EFFECT IN THE THERMOMAGNETIC
PROPERTIES OF BISMUTH TELLURIDE. ~~ALL AMERICAN~~
R.I. BASHKOV, A. I. DUBOV, and P. A. YEREMENKO.
Dokl. Akad. Nauk SSSR, Vol. 117, No. 2, 281-4 (1967). In Russian.
Measurements have been made of the Hall, thermoelectric and
transverse and longitudinal Nernst-Ettingshausen effects for ten
samples of polycrystalline Bi₂Te₃, and the results are given graphic-
ally over a temperature range of 100-700°K. S.F. Edwards

TSIRLIN, Yu.A.; DAYCH, A.R.; SOKOLOVSKAYA, T.I.; NAGORNAYA, L.L.

Determining the effective light absorption coefficient for
plastic scintillators of great length. Zhur. prikl. spekt.
2 no.4:371-373 Ap '65. (MIRA 18:8)

S/051/60/008/005/017/027
E201/E491

AUTHORS: Daych, A.R., Tsirlin, Yu.A. and Pargamanik, L.E.

TITLE: Passage of Light Through Optical Waveguides

PERIODICAL: Optika i spektroskopiya, 1960, Vol.8, No.5, pp.713-720

TEXT: The authors discuss passage of light through cylindrical optical waveguides with specularly reflecting walls, using the geometrical-optics approximation. The discussion deals with the following cases: 1) waveguides with a light source of uniform intensity lying on the waveguide axis and with a source whose intensity is proportional to the cosine of the angle made with the waveguide axis; 2) waveguides with and without total reflection at its internal surfaces and also waveguides with the walls coated with a special reflecting layer; 3) waveguides for which absorption of light in the walls is neglected and waveguides for which this absorption is allowed for. The transmission coefficient is obtained for these cases and the dependence of this coefficient on the waveguide dimensions and conditions of reflection at the walls is discussed. The authors also compare waveguides of various types. The paper is entirely theoretical. There are 3 figures, ✓B.

Card 1/2

S/051/60/008/005/017/027
E201/E491

Passage of Light Through Optical Waveguides

1 mathematical appendix and 14 references: 11 English, 2 French
and 1 translation from German into Russian. ✓B

SUBMITTED: September 18, 1959

Card 2/2

TSIRLIN, Yu.A.; PARGAMANIK, L.E.; DAYCH, A.R.

Diffusion of light in dispersing media. Opt. i spektr.

12 no. 4:304-310 F '62.

(MIRA 15:2)

(Light--Scattering)

DAYCH, A.R.; Prinimal uchastiye BORODENKO, V.I.

Determining the cover power of white pigments. Lakokras, nat. i ikh.
prim. no.3:58-61 '63. (MIRA 16:9)

1. Khar'kovskiy sel'skokhozyaystvennyy institut.
(Pigments--Testing)

L 16130-65 EWT(1)/EEC(t)/EEC(b)-2 P1-1 IJP(c)/ESD(t)/ESD(gs)/RAEM(1)/SSD/ESD/
 ACCESSION NR: AP4048753 AFWL/ISD(a)-5/ S/0051/64/017/005/0776/0783
 AS(MF)-2

AUTHORS: Pargamanik, L. E.; Daych, A. R.; Tsirlin, Yu. A.

TITLE: Passage of light through diffuse light pipes

SOURCE: Optika i spektroskopiya, v. 17, no. 5, 1964, 775-783

TOPIC TAGS: light pipe, light transmission, light reflection,
 diffusive motion

ABSTRACT: This is a companion paper to earlier work by the authors (Opt. i spektr. v. 8, 773, 1960) dealing with the passage of light through light pipes with specularly reflecting walls. Since light pipes with diffusely reflecting walls are frequently used to pipe light from scintillators to photomultipliers, the authors calculate the light transmission of a diffuse pipe light, by determining the forward motion of the photons reflected from the pipe walls with the aid of the diffusion equation. The calculation results were

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L 16130-65

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then tested, using the set-up shown in Fig. 1 of the Enclosure, for light pipes made of drawing paper (reflectivity $R = 0.82$), porcelain ($R = 0.75$), and porcelain tubing coated with white highly reflecting paint ($R = 0.94$). The results demonstrated the applicability of the diffusion theory for the description of the passage of light through diffuse light pipes. Discrepancies between theory and experiment at longer wavelengths are explained. Comparison with specularly reflecting light pipes indicates that for short relative lengths the diffuse light pipes can compete with the specularly reflecting ones and furthermore provide a more uniform light flux over the surface of the multiplier cathode. They cannot compete, however, with pipes of the mixed type, which combine total internal reflection with diffuse reflection. Orig. art. has: 5 figures and 18 formulas.

ASSOCIATION: None

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ACCESSION NR: AP4048753

SUBMITTED: 02Dec63

ENCL: 01

SUB CODE: OP

NR REF SOV: 003

OTHER: 004

Cord 3/4

L 16430-65

ACCESSION NR: AP4048753

ENCLOSURE: 01

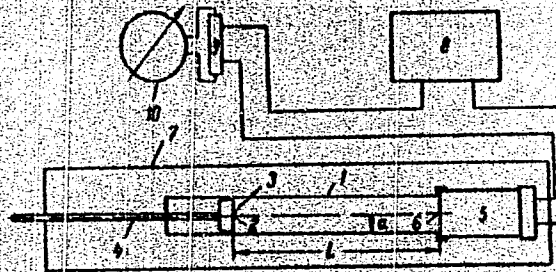


Fig. 1. Diagram of set-up for the measurement of light transmission

1 - Light pipe, 2 - light source, 3 - reflector, 4 - rod for moving the reflector with the source, 5 - photomultiplier, 6 - photocathode, 7 - light tight case, 8 - voltage source, 9 - shunt, 10 - mirror galvanometer

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47044-65 EWT(1)/EIP(s)-2/EWT(n)/EWP(t)/EWP(b) P1-4/Pt-7/Pad IJP(c) JD/JW/
JW/JG

ACCESSION NR: AP5007547

S/0368/65/002/001/0010/0032

AUTHOR: Deych, A. R.; Tsirlin, Yu. A.

32
B

TITLE: Angular distribution of light from a NaI(Tl) scintillator 21

SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 1, 1965, 80-82

TOPIC TAGS: sodium iodide scintillator, scintillator emission, scintillator intensity distribution, angular dependence

ABSTRACT: The angular dependence of the intensity of light from a packed NaI(Tl) crystal was investigated experimentally with an installation in which the scintillator was excited with collimated gamma-radiation from Co^{60} and the luminescence light was made to strike a photographic film. A diagram of the installation is shown in Fig. 1 of the Enclosure. The film was developed under controlled conditions and the crystal emission curves were determined by microphotometry of the film. The results are shown in Fig. 2 of the Enclosure and indicate that anisotropy of the light intensity is observed whether or not an optical constant is present. It is pointed out in conclusion that the results can be used to obtain more precise data on the light transmission from the NaI(Tl) detector over a light pipe. Orig. art. has: 2 figures and 1 formula.

Cord 1/4

L 47044-65

ACCESSION NR: AF507547

ASSOCIATION: None

SUBMITTED: 20Jul64

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ENCL: 02

SUB CODE: OP

OTHER: 000

Card 2/4

L 47044-65

ACCESSION NR: AP5007547

ENCLOSURE: 01

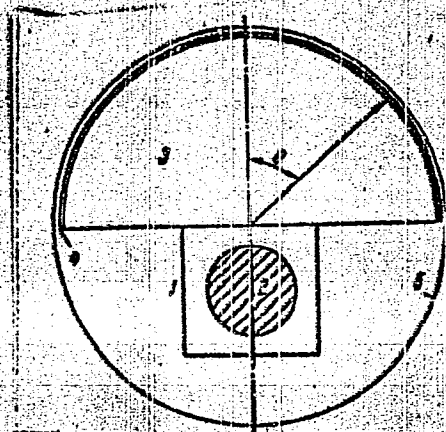


Fig. 1. Diagram of set-up for the determination of the angular distribution of light from a scintillator.

1 - NaI(Tl) crystal, 2 - gamma ray beam, 3 - half-cylinder of organic glass with polished surfaces, 4 - photographic film, 5 - case.

Card 3/4

L 47044-55

ACCESSION NR: AP5007547

ENCLOSURE: 02

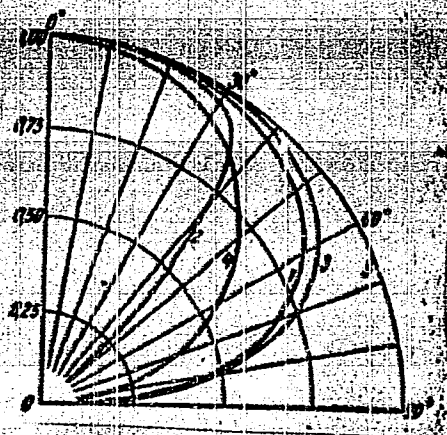


Fig. 2. Angular distributions of scintillator light.

1 - With optical contact between scintillator and half-cylinder, 2 - without optical contact, 3 - in air, 4 - with isotropic radiator in scintillator, 5 - isotropic distribution.

TP
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I 8213-66 EWT(1)/EWT(m)/EWP(j)/EWA(h)/EWA(1) LJP(c) NW/GG/EM
 ACC NR: AP5013864 44,55 SOURCE CODE: UR/0368/65/002/004/0371/0373
 AUTHOR: Tairlin, Yu. A.; Daych, A. R.; Sokolovskaya, T. I.; Nagornaya, L. L. 44,55 44,55 44,55
 ORG: none
 TITLE: Determining the effective coefficient of light absorption in long plastic scintillators 15
 SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 4, 1965, 371-373 21,44,55
 TOPIC TAGS: scintillator, light absorption, gamma luminescence, luminescent material
 ABSTRACT: It is shown that the attenuation in the scintillator material of light emitted by that scintillator may be determined only by measuring the luminescence spectrum, spectral sensitivity of the photocathode which detects the radiation, and spectral coefficient of absorption of the scintillator material throughout the entire range of wavelengths emitted by the scintillator. An experimental method is described for direct determination of the "effective" coefficient of absorption. The transmittance of α -stimulated light is measured in long cylinders of scintillation plastic. In a second set of experiments, the transmittance of light stimulated by a collimated beam of γ -rays is measured. The results are given in graphic form. A formula is derived for the transmission factor as a function of length. Orig. art. has: 3 figures, 5 formulas.
 SUB CODE: OP,MT/ SUBM DATE: 16Sep64/ ORIG REF: 006/ OTH REF: 000
 Cord 1/1 UDC: 535.344

DROZDOV, Ya.M.; DAYCH, I.M., inzh.

Some problems in the designing of vibrating screens. Ugol' 35
no. 4:48-51 Ap '60. (MIRA 14:4)

1. Yuzhgiproshakht. 2. Glavnyy konstruktor Yuzhgiproshakhty
(for Drozdov).
(Coal—Classification) (Screens (Mining))

DAYCH, I.M., inzh.

Problems of vibration isolation of horizontal centrifuges.

Ugol' Ukr. 5 no.9:24-25 S '61.

(MIRA 14:9)

1. Yzhgiproshakht.

(Centrifuges--Vibration)

DAYCH, I.M.

Determining the external unbalance of generator machines. Izv.
mash. i mekh. no. 105/106534-12 1975.

(MIRA 1842)

SIGOV, S.A.; LEYKIN, Z.M.; DAYCHI, R.I.

Thermodynamics of some processes for the preparation of calcium cyanamide by a noncarbide method. Uzb. khim. zhur. 7 no.2: 25-34 '63. (MIRA 16:8)

1. Tashkentskiy politekhnicheskiy institut.
(Calcium cyanamide) (Thermodynamics)

SIGOV, S.A.; LEYKIN, Z.M.; DAYCHI, R.I.

Production of calcium cyanamide by the carbideless method.
Uzb.khim.zhur. 8 no.2:73-78 '64. (MIRA 17:5)

1. Tashkentskiy politekhnicheskii institut.

DAYCHIK, M.L.

Translation from: Referativnyi zhurnal. Mekhanika, 1957, Nr 5, p 156 (USSR)

AUTHORS: Prigorovskiy, N. L., Vasil'ev, A. A., Bortkevich, V. L., Daychik, M. L.

TITLE: Wire Strain Gages (Provolochnyye tenzometry)

PERIODICAL: V sb.: Izmereniye napryazheniy i usily v detal'yakh mashin. Moscow, Mashgiz, 1955, pp 5-43

ABSTRACT: A description is given of the properties of wire-type strain-gage pickups; experimentally plotted curves are given for hard and annealed constantan and Nichrome wire, curves showing the dependence of the stress and of the relative change in the electrical resistance on the relative elongation ϵ (for elongations ϵ up to 0.8%). The authors examine the actual process of transmission of the strain-probe signals from a metal specimen or machine part to a strain gage that has been glued to it, making due allowance for the stiffness of the glue used. The matter of selecting for the strain-gage pickup the type of wire, current, and electrical resistance most compatible with the type of electric measuring instrument that selection, and formulae and graphs are given to facilitate that selection; analyzed also are various methods of moisture-proofing the strain-gage pickups, and

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Wire Strain Gages

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Experimentally plotted curves are given showing the relationship between the amount of creep exhibited by the glue that is used and the temperature of the strain-gage pickup wire. Included, too, are: a) data on the varying degrees of the mechanical hysteresis exhibited by different strain-gage pickups pasted on to different types of glue; b) formulae permitting calculation of the maximum allowable length of pickup intended for recording strains induced by high-frequency dynamic loads; c) a list of the properties of the metals employed to make the strain-sensitive wire-type pickups; and d) a number of glue recipes. A description is given of the technique and equipment used in the manufacture of wire strain-gage pickups; described also is a design for pickups capable of functioning at temperatures of up to 800°C. Describing, in addition, three types of electron-tube equipment suitable for use with wire pickups, the authors give: 1) a full circuit diagram for and essential data on all the elements of an ASD static-strain gage developed by the Institut mashinovedeniya AN SSSR (Institute of Machine Construction, Academy of Sciences, USSR) [USD = Izmeritel staticheskikh napryazheniy na 6N2P (static-strain gage on 6N2P television tubes and having a 50-cps measuring bridge power supply); this instrument is sensitive to strains as small as 10^{-5} cm/cm. (Reviewer's Note: In the circuit diagram given for this instrument an error

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Wire Strain Gages

appears; the indicated anode connection points of the 6KHzP radio tube should be reversed); 2) a full circuit diagram of an automatic strain recorder that makes strain recordings at 120 different points in the course of 80 seconds; included is a diagram of the instrument's 120-point switch; 3) a summary account of the full-beam-deflection parameters on 2-500 μ s current loads of the high-sensitivity Trans-type vibrators put out by the "Geofizika" plant (Geofizika: geophysics; Transl. Note); plus a detailed description of a UD-3 type strain-testing laboratory capable of recording dynamic strains of frequencies up to 1,500 cps. A brief description is given also of a cathode-ray oscillograph specially designed to record impact strains.

Dr. V. Novitskiy

Card 3/3

DAYCHIK, M.L., inzhener, redaktor; SHTYMBOK, G.Yu., inzhener, redaktor;
~~SENKEVICH~~, I.V., inzhener, redaktor; UDAL'TSOV, A.N., glavnyy
redaktor

[Accelerometer A-2; an instrument for indicating overloading;
Vibrograf V11] Akselerometr A-2, Pribory dlia registratsii pere-
gruzok, Vibrograf V11. Moskva, 1955. 18 p. (Pribory i stendy.
Tema no.1, no.PS-55-489) (MIRA 9:9)

1. Moscow. Institut tekhniko-ekonomicheskoy informatsii.
(Measuring instruments)

8

MOZNIKER, Riva Abramovna, VASIL'CHENKO, Z.W., inzh.red.; DATCHIN, M.L., inzh.red.;
PONOMAREV, V.A., tekhn.red.

[Frequency and amplitude meter] Izmeritel' chastoty i amplitudy.
Moskva, Filial Vses. in-ta nauchnoi i tekhn. inform., 1956. 14 p.
(Pribory i stendy. Tema 1, no.P-56-489) (MIRA 11:8)
(Electronic instruments)